## Abstract

A method and apparatus for encoding or decoding data is proposed. A fire code is used for this with a polynomial  $G(x) = P(x) (1 + x^c)$ , wherein the value for C can be variably selected. In addition, the error correction and detection properties of the redundancy integrated into the decoding apparatus can be set independently of the encoding device. These properties depend solely on the number of redundancy bits used.